

MYP Biology – Grade 10								
Topic/ Unit Title	Key Concept	Related Concept	Global Context/Exploration	ATL Skills	Statement of Inquiry	Summative Assessments	Assessment Objectives	Service as Action
The Nature of Biology and Molecular Biology	Relationship	Evidence	Scientific and technical innovation	Communication and Research	Scientists observe patterns in the world around them to construct systems that explain biological molecules.	Criteria B and C -Food test	Criterion B: Inquiring and designing-Max 8 Criterion C: Processing and evaluating-Maximum: 8	Service- Student will create a poster to educate the school community about the importance of the biological molecules in our diet.
Plant Biology	System	Function	Globalisation and sustainability	Thinking and Communication	Energy is distributed within a system and can be functional between a system and its environment.	Criterion D - Research into GMO Plants Criterion A- Units test	Criterion A- Knowledge and Understanding. Max 8 Criterion D - Reflecting on the Impact of Science. Max 8	Action- Student will be task to label all the plants on campus with its scientific names to support teaching and learning.
Genetics	Systems	Models, form, function, transformation	Scientific and technical innovation: an exploration of the way a model is transforming our understanding of life	Information Literacy and Critical Thinking	Understanding DNA empowers humans to shape food, health products and even the species we share our planet with – if we choose.	Criterion A- End of units exams (E-Assessment style) Criterion D-(Feature article for a newspaper supplement: Has the Human Genome Project opened ‘Pandora’s Box’?	Criterion A- Knowledge and Understanding Max 8 Criterion D - Reflecting on the Impact of Science. Max 8	Service- Student will create a poster to educate the school community about the Steam cell research.
Ecology	Relationships	Interaction	Globalisation and sustainability – an exploration of global biodiversity and the impact of human activities on the environment	Thinking and Communication	Balancing global biodiversity with human needs.	(A) Unit questions (B and C) Investigation: Investigation: Investigating the effects of nutrients on plant growth	Criterion A- Knowledge and Understanding. Max 8 Criterion C: Processing and evaluating-Maximum: 8	Service- student will engaged in a campaign drive to promote sustainability in the school and their community.



Evolution	Change	Evidence, movement, transformation	Orientation in space and time: an exploration of how world views change in the light of new interpretations of evidence.	Communication and Research	A synthesis of evidence has led to dramatic unifying theories of the history of the Earth and how life evolved its diversity.	(A) Unit questions (B and C) Investigation: Travelling seed	Criterion A- Knowledge and Understanding. Max 8 Criterion C: Processing and evaluating- Maximum: 8	Action- Student will be task to raise funds in support of disadvantage people in our communities
Body forms	Change	Transformation, form, function scale	Scientific and technical innovation – an exploration of how knowledge of human physiology can be used to improve health care.	Critical Thinking and Information Literacy	Complex organisms need many interactive systems to work together.	(A) Unit questions (B and C) Investigation: Using living cells to investigate osmosis	Criterion A- Knowledge and Understanding. Max 8 Criterion C: Processing and evaluating- Maximum: 8 Criterion B: Inquiring and designing-Max 8	Service- Student will embark on a healthy eating campaign to fight against obesity.
The Nature of Biology and Molecular Biology	Relationship	Evidence	Scientific and technical innovation	Communication and Research	Scientists observe patterns in the world around them to construct systems that explain biological molecules.	Criteria B and C -Food test	Criterion B: Inquiring and designing-Max 8 Criterion C: Processing and evaluating- Maximum: 8	Service- Student will create a poster to educate the school community about the importance of the biological molecules in our diet.
Plant Biology	System	Function	Globalisation and sustainability	Thinking and Communication	Energy is distributed within a system and can be functional between a system and its environment.	Criterion D - Research into GMO Plants Criterion A- Units test	Criterion A- Knowledge and Understanding. MaX 8 Criterion D - Reflecting on the Impact of Science. Max 8	Action- Student will be task to label all the plants on campus with its scientific names to support teaching and learning.

**Please note:** At times areas of the curriculum will change based on the learning needs and interests of the students.





DWIGHT SCHOOL  
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